

WHAT IS CLAIMED IS:

1. A schema generator, comprising:
 - a computer readable storage medium;
 - computer software stored on the computer readable
 - 5 storage medium and operable to
 - parse a plurality of transaction definitions
 - for a software system, wherein each transaction
 - definition comprises one or more parameters;
 - generate a plurality of schema definitions in
 - 10 response to the plurality of transaction definitions,
 - wherein the schema definitions are written in a self-
 - describing language;
 - wherein a first schema definition is operable
 - to map the one or more parameters associated with a first
 - 15 transaction definition to a first document written in the
 - self-describing language; and
 - wherein a second schema definition is operable
 - to map a second document written in the self-describing
 - language to the one or more parameters associated with a
 - 20 second transaction definition.
2. The schema generator of Claim 1,
 - wherein the self-describing language comprises XML
 - or any version thereof.
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3. The schema generator of Claim 1,
 - wherein the self-describing language comprises HTML
 - or any version thereof.
- 30 4. The schema generator of Claim 1,
 - wherein the self-describing language comprises a
 - language that employs hypertext.

5. The schema generator of Claim 1,
wherein the software system comprises an IMS system.
6. The schema generator of Claim 1,
5 wherein the transaction definitions are associated
with a message format service.
7. The schema generator of Claim 6,
wherein the self-describing language comprises XML
10 or any version thereof.

8. A method for generating a plurality of schema definitions, comprising:

5 parsing a plurality of transaction definitions for a software system, wherein each transaction definition comprises one or more parameters;

generating a plurality of schema definitions in response to the plurality of transaction definitions, wherein the schema definitions are written in a self-describing language;

10 wherein a first schema definition is operable to map the one or more parameters associated with a first transaction definition to a first document written in the self-describing language; and

15 wherein a second schema definition is operable to map a second document written in the self-describing language to the one or more parameters associated with a second transaction definition.

9. The method of Claim 8,

20 wherein the self-describing language comprises XML or any version thereof.

10. The method of Claim 8,

25 wherein the self-describing language comprises HTML or any version thereof.

11. The method of Claim 8,

wherein the transaction definitions are associated with a message format service.

12. A transaction processing system comprising:

a software service operable to receive a transaction request and to generate a first object associated with the transaction request;

5 an object generator operable to convert the first object into a first document written in a self-describing language; and

a document generator operable to convert the first document into a first transaction message according to a
10 schema associated with a first transaction type determinable from the first document.

13. The transaction processing system of Claim 12,
wherein the self-describing language comprises XML
15 or any version thereof.

14. The transaction processing system of Claim 12,
wherein the self-describing language comprises HTML
or any version thereof.

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15. The transaction processing system of Claim 12,
wherein the transaction generator is further operable to send the first transaction message to a message format service.

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16. The transaction processing system of Claim 12,
wherein the document generator is further operable
to receive a second transaction message and convert the
second transaction message into a second document
5 according to a schema associated with a second
transaction type determinable from the second transaction
message; and
wherein the second document is written in the self-
describing language.
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17. The transaction processing system of Claim 16,
wherein the object generator is further operable to
convert the second document into a second object.
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18. The transaction processing system of Claim 17,
wherein the software service is further operable to
receive the second object in response to the transaction
request.
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19. The transaction processing system of Claim 18,
wherein the self-describing language comprises XML.
20. The transaction processing system of Claim 16,
wherein the software service is further operable to
25 receive the second document in response to the
transaction request.
21. The transaction processing system of Claim 12,
wherein the software service comprises a web service
30 and wherein the definition of the first object has been
published in a registry.

22. A method for processing a transaction, comprising:
receiving a transaction request;
generating a first object associated with the
transaction request;
5 converting the first object into a first document
written in a self-describing language; and
converting the first document into a first
transaction message according to a schema associated with
a first transaction type determinable from the first
10 document.
23. The method of Claim 22,
wherein the self-describing language comprises XML
or any version thereof.
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24. The method of Claim 22,
wherein the self-describing language comprises HTML
or any version thereof.
- 20 25. The method of Claim 22, further comprising:
sending the first transaction message to a message
format service.
26. The method of Claim 22, further comprising:
25 receiving a second transaction message;
converting the second transaction message into a
second document according to a schema associated with a
second transaction type determinable from the second
transaction message; and
30 wherein the second document is written in the self-
describing language.

27. The method of Claim 26, further comprising:
converting the second document into a second object.

28. The method of Claim 27, further comprising:
5 receiving the second object in response to the
transaction request.

29. The method of Claim 28, further comprising:
wherein the self-describing language comprises XML.
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30. The method of Claim 22,
wherein the first object is generated by a web
service and wherein the definition of the first object
has been published in a registry.